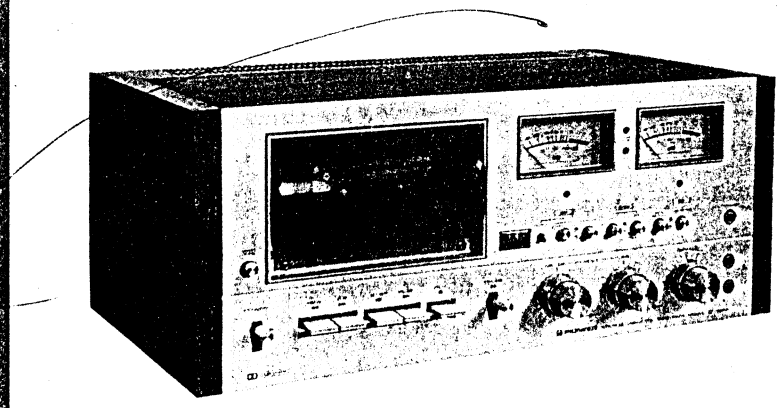
CASSETTE TAPE DECK

CT-F9191

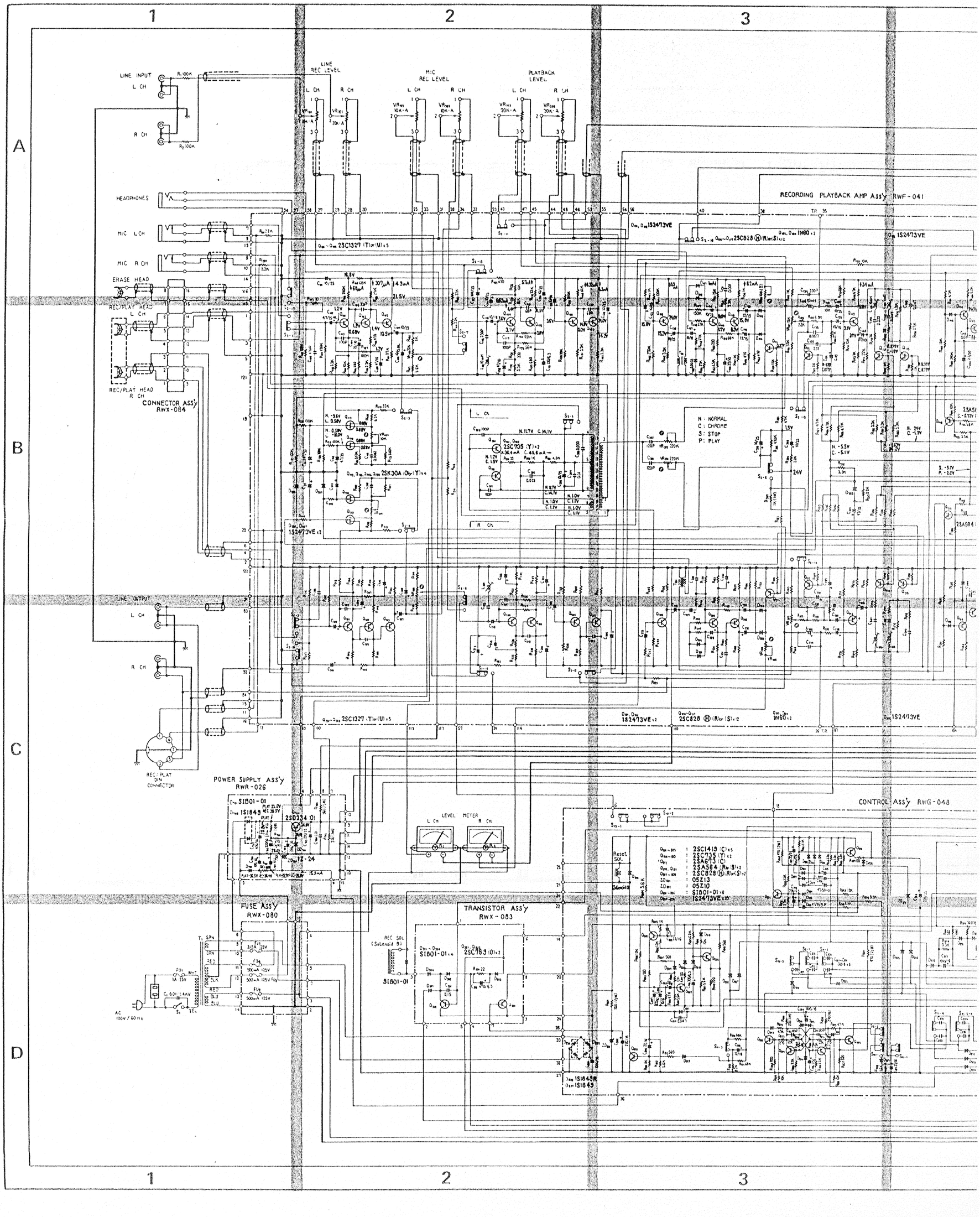
FV, KCU

<ART-138-

Service Manual



PIONEER®


1
2
3
A
B
C
D
LINE INPUT
L CH
R CH
LINE REC LEVEL
MIC REC LEVEL
PLAYBACK LEVEL
HEADPHONES
MIC L CH
MIC R CH
ERASE HEAD
REC/PLAY HEAD L CH
REC/PLAY HEAD R CH
CONNECTOR ASS'y RWX-084
RECORDING PLAYBACK AMP ASS'y RWF-041
LINE OUTPUT
REC/PLAY 3P CONNECTOR
POWER SUPPLY ASS'y RWR-026
FUSE ASS'y RWX-080
TRANSISTOR ASS'y RWX-083
CONTROL ASS'y RWG-048
LEVEL METER
REC SOL (Solenoid B)
AC 120V / 60Hz
N : NORMAL
C : CHROME
S : STOP
P : PLAY

4 5 6

RECORDING PLAYBACK AMP Ass'y RWF-041

DOLBY Ass'y RWX-078

INDICATOR Ass'y RWX-081

SWITCH. Ass'y RWS-031

CONTROL Ass'y RWG-048

MECHANISM Ass'y RYM-032

SERVO CON AMP

FUSE Ass'y RWX-080

SWITCHES:

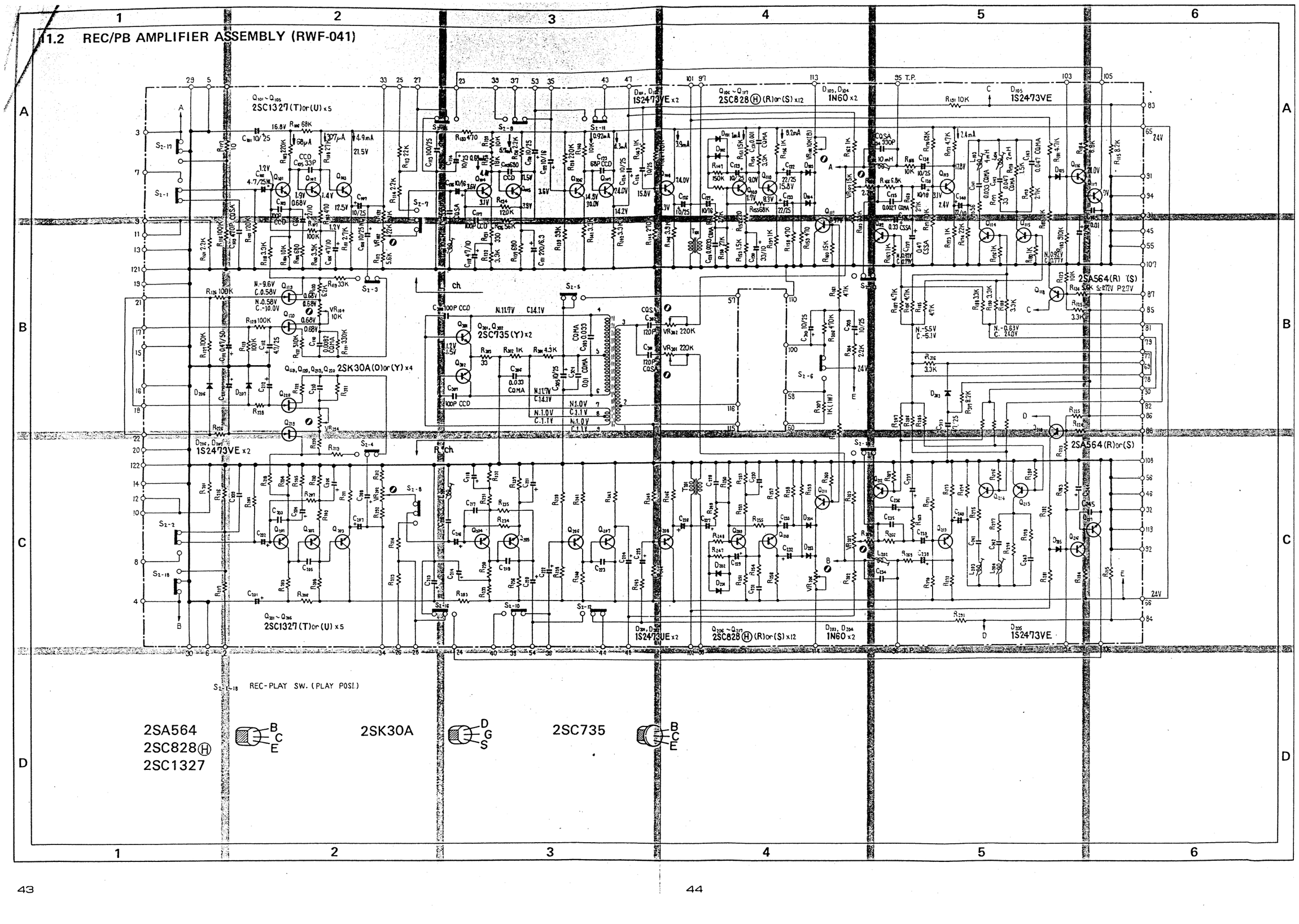
- S_1 : POWER SWITCH (OFF POSITION)
- $S_{2-1\sim8}$: REC-PLAY SWITCH (PLAY POSITION)
- $S_{3-1\sim2}$: EQ. SWITCH (CHROME POSITION)
- $S_{4-1\sim2}$: BIAS SWITCH (CHROME POSITION)
- $S_{5-1\sim2}$: LIMITER SWITCH (OFF POSITION)
- $S_{6-1\sim2}$: DOLBY SWITCH (OFF POSITION)
- S_7 : CHROME TAPE DETECTOR (NO HOLE POSITION),
- $S_{8-1\sim2}$: MPX FILTER SWITCH (OFF POSITION)
- $S_{9-1\sim4}$: MEMORY SWITCH (OFF POSITION)
- $S_{10-1\sim4}$: PLAY SWITCH (OFF POSITION)
- $S_{11-1\sim4}$: REW SWITCH (OFF POSITION)
- $S_{12-1\sim4}$: FAST FORWARD SWITCH (OFF POSITION)
- $S_{13-1\sim2}$: REC SWITCH (OFF POSITION)
- S_{14} : CASSETTE DETECTOR SWITCH (NO HALF POSITION)
- S_{15} : SENSING SWITCH
- S_{16} : COUNTER SWITCH
- S_{17} : PAUSE SWITCH (OFF POSITION)
- S_{18} : ERASE PREVENT DETECTOR SWITCH (NOT RECODING POSITION)

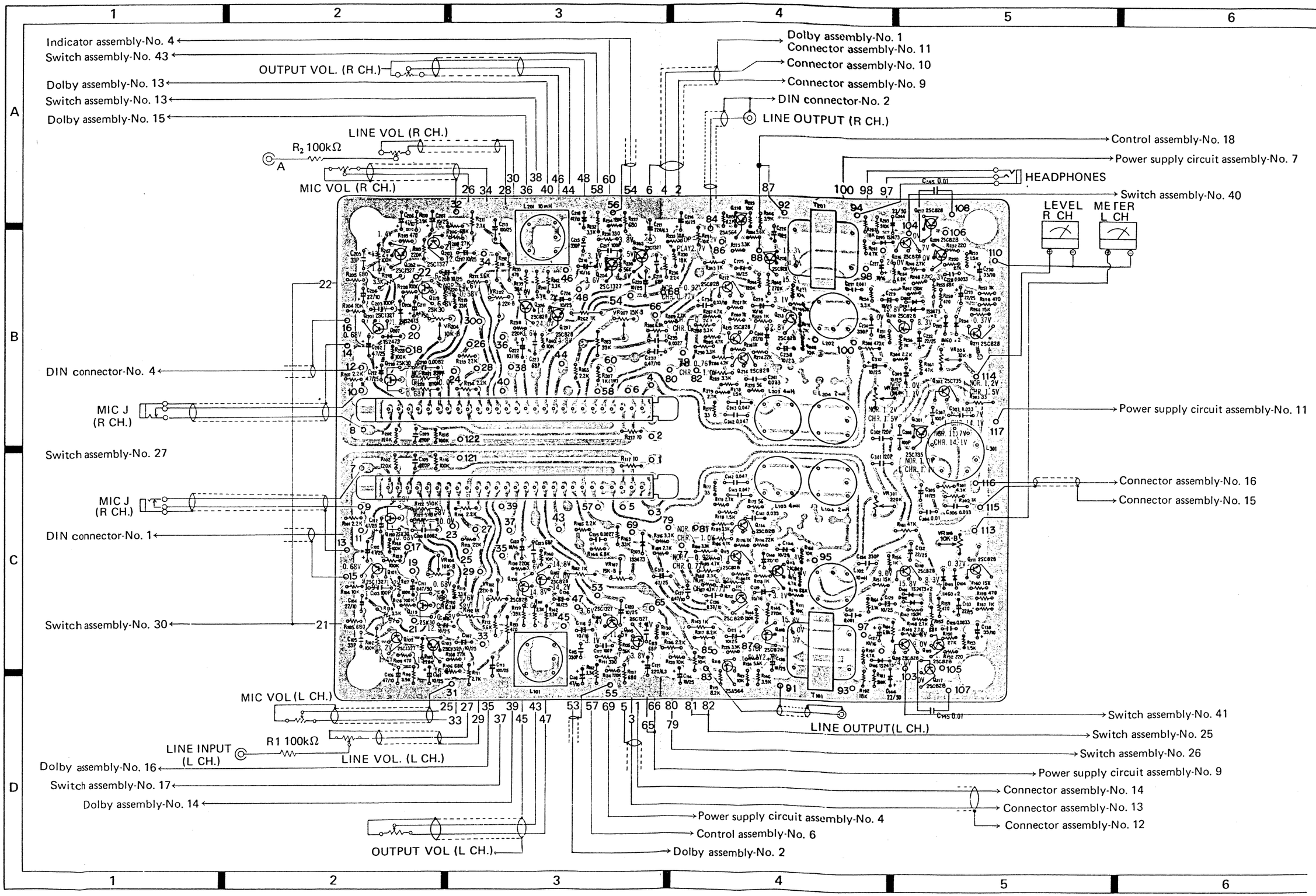
RESISTOR
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED K: kΩ M: MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED P: pF

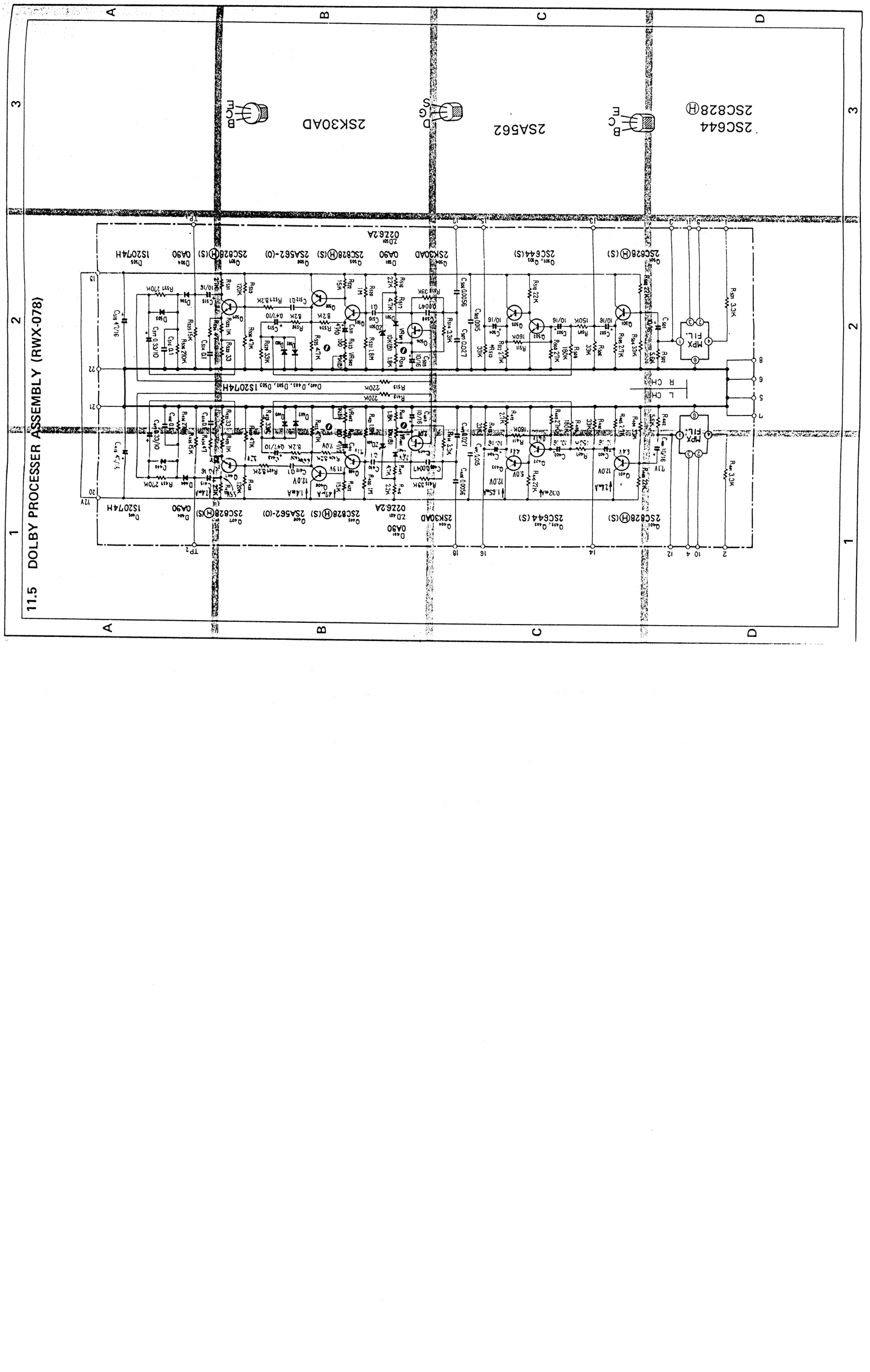
FV model

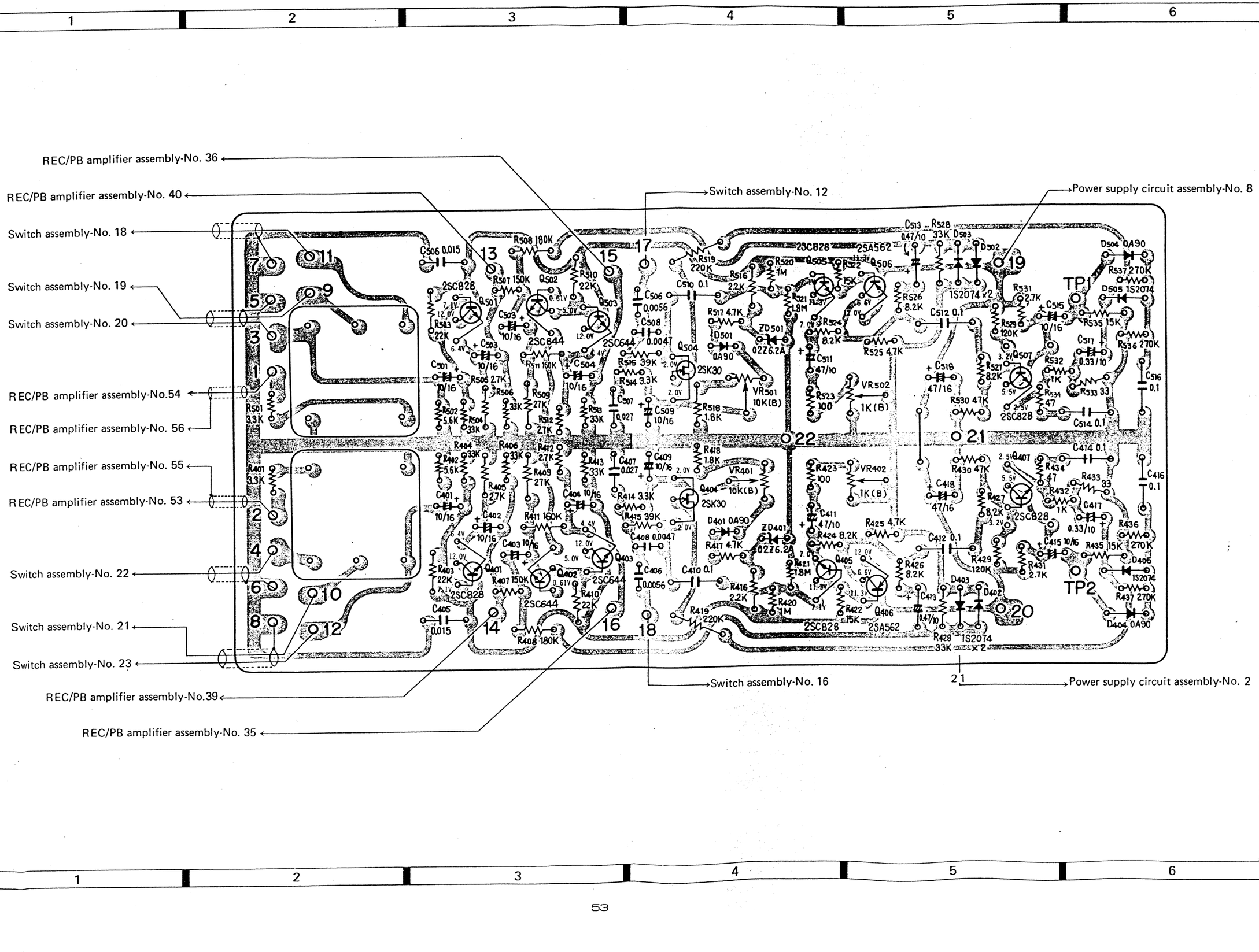
11.2 REC/PB AMPLIFIER ASSEMBLY (RWF-041)



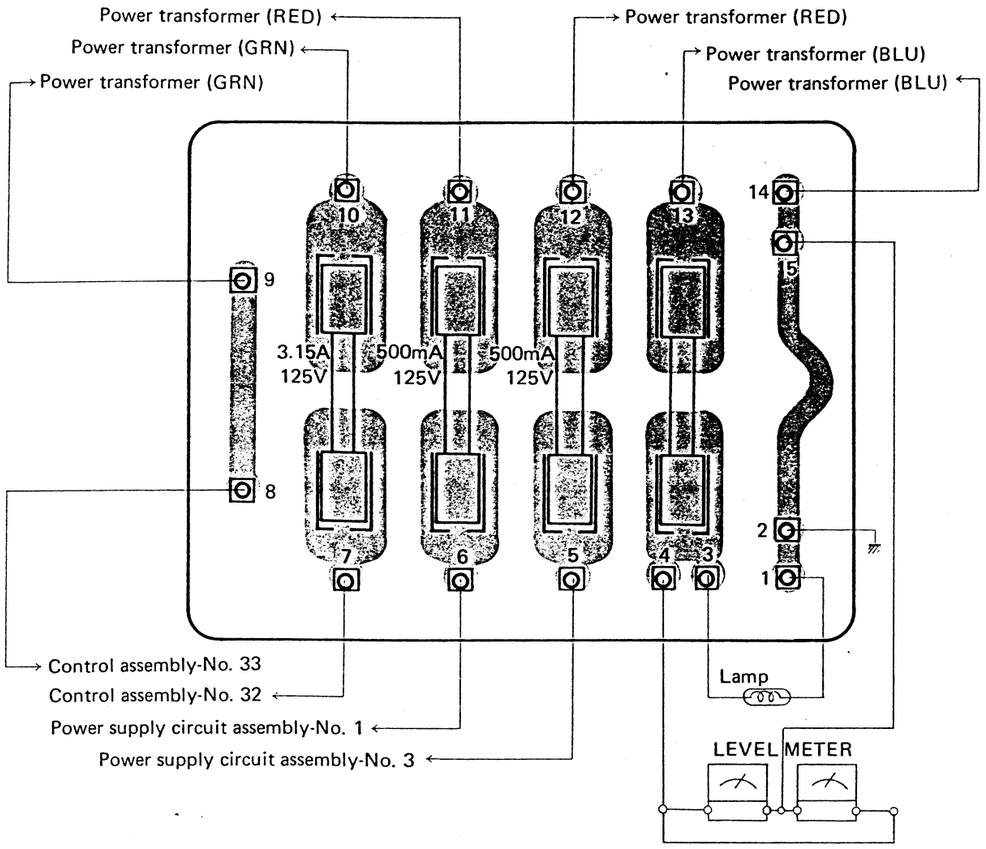

Indicator assembly-No. 4
Switch assembly-No. 43
OUTPUT VOL. (R CH.)
Dolby assembly-No. 13
Switch assembly-No. 13
Dolby assembly-No. 15
LINE VOL (R CH.)
R2 100kΩ
A
MIC VOL (R CH.)
Dolby assembly-No. 1
Connector assembly-No. 11
Connector assembly-No. 10
Connector assembly-No. 9
DIN connector-No. 2
LINE OUTPUT (R CH.)
Control assembly-No. 18
Power supply circuit assembly-No. 7
HEADPHONES
Switch assembly-No. 40
LEVEL METER
R CH L CH
DIN connector-No. 4
MIC J (R CH.)
Switch assembly-No. 27
MIC J (R CH.)
DIN connector-No. 1
Switch assembly-No. 30
Power supply circuit assembly-No. 11
Connector assembly-No. 16
Connector assembly-No. 15
MIC VOL (L CH.)
LINE INPUT (L CH.)
R1 100kΩ
LINE VOL. (L CH.)
Dolby assembly-No. 16
Switch assembly-No. 17
Dolby assembly-No. 14
OUTPUT VOL (L CH.)
LINE OUTPUT (L CH.)
Switch assembly-No. 41
Switch assembly-No. 25
Switch assembly-No. 26
Power supply circuit assembly-No. 9
Connector assembly-No. 14
Connector assembly-No. 13
Connector assembly-No. 12
Power supply circuit assembly-No. 4
Control assembly-No. 6
Dolby assembly-No. 2

11.5 DOLBY PROCESSER ASSEMBLY (RWX-078)




REC/PB amplifier assembly-No. 36
REC/PB amplifier assembly-No. 40
Switch assembly-No. 18
Switch assembly-No. 19
Switch assembly-No. 20
REC/PB amplifier assembly-No.54
REC/PB amplifier assembly-No. 56
REC/PB amplifier assembly-No. 55
REC/PB amplifier assembly-No. 53
Switch assembly-No. 22
Switch assembly-No. 21
Switch assembly-No. 23
REC/PB amplifier assembly-No.39
REC/PB amplifier assembly-No. 35
Switch assembly-No. 12
Switch assembly-No. 16
Power supply circuit assembly-No. 8
Power supply circuit assembly-No. 2
TP1
TP2
2SC828
2SA562
2SC644
2SK30
0A90
1S2074 x2
1S2074 x2
ZD501 02Z6.2A
ZD401 02Z6.2A
VR501 10K(B)
VR401 10K(B)
VR502 1K(B)
VR402 1K(B)

11.6 FUSE ASSEMBLY (RWX-080)



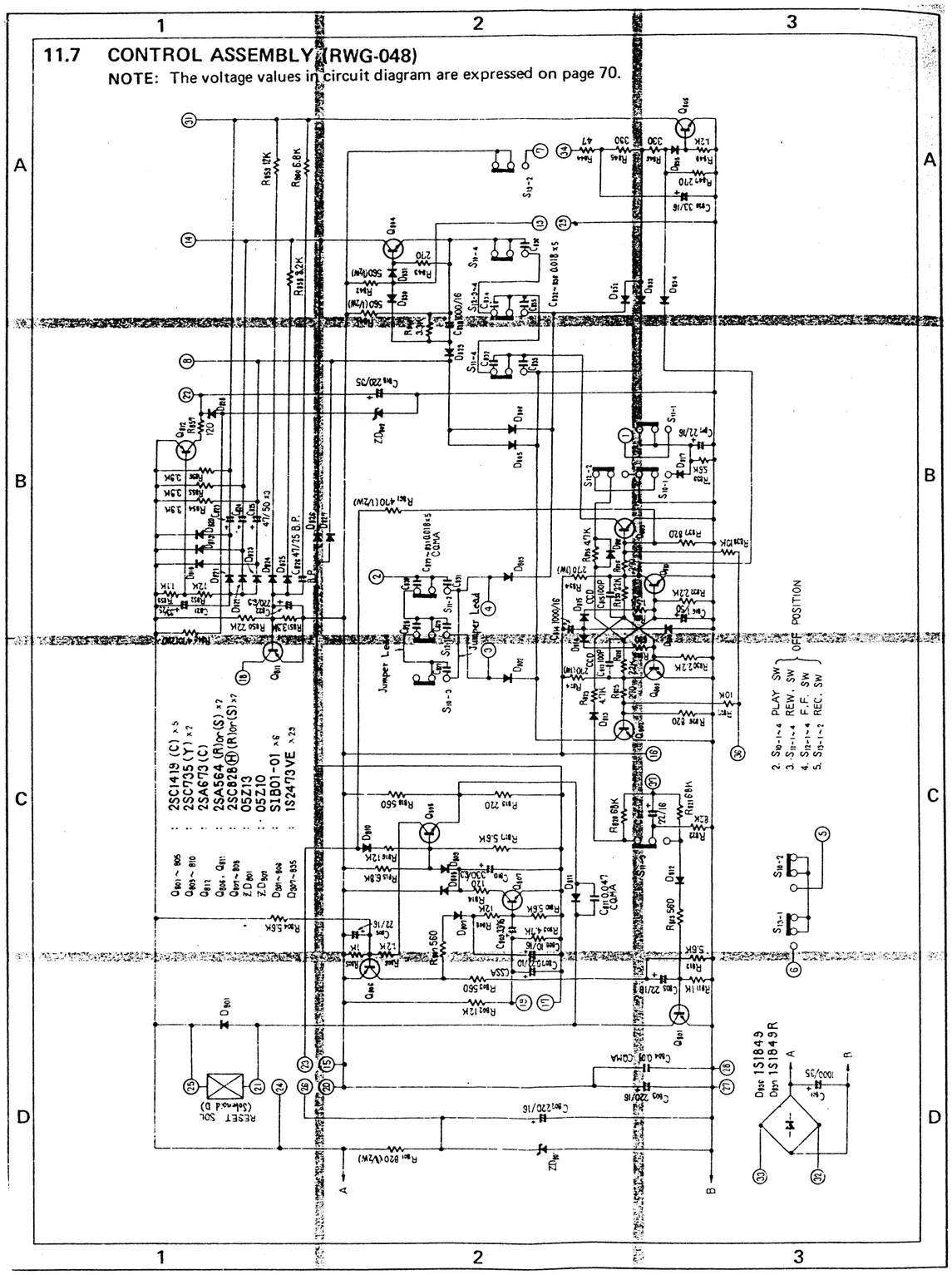
Parts List of Fuse Assembly (RWX-080)

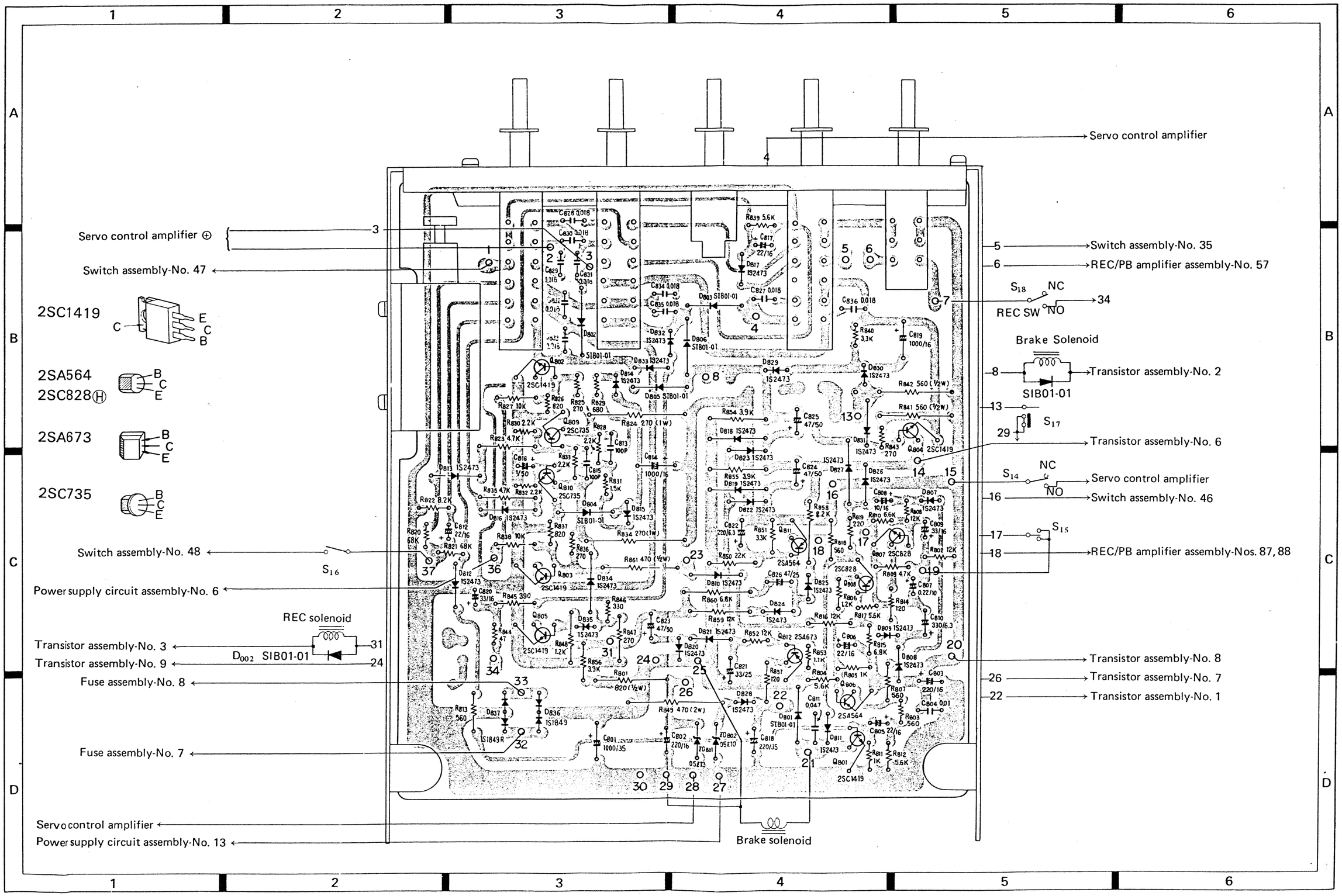
CAPACITORS

Symbol	Description	Part No.
	Fuse clip	RKR-017
	Fuse 500mA	REK-048
	Fuse 3.15A (Surge proof)	REK-044

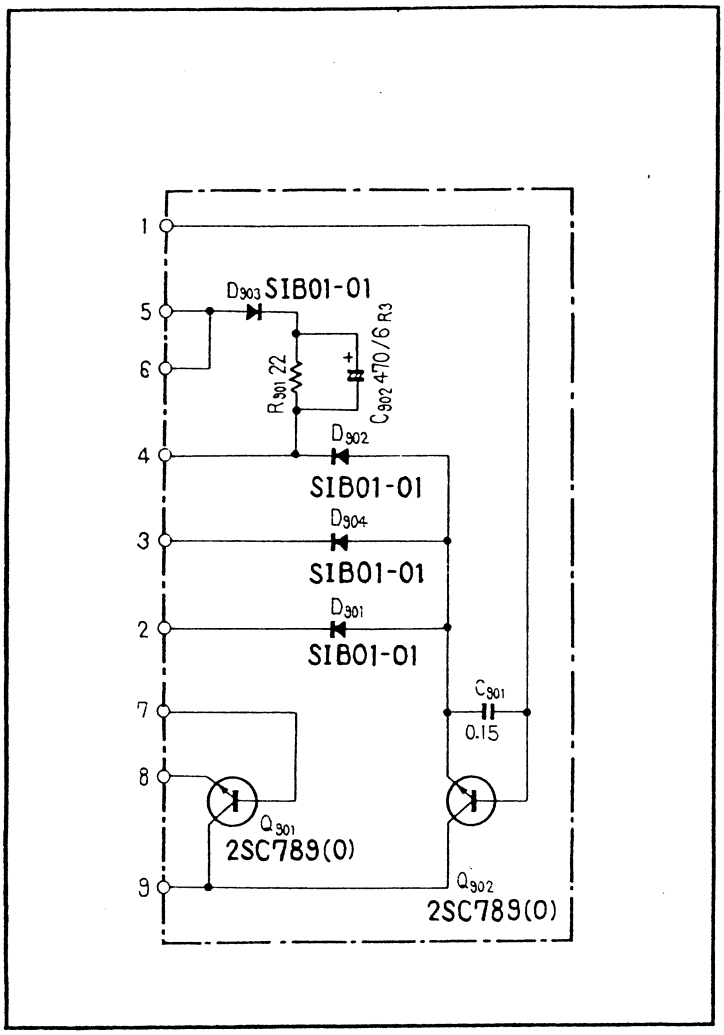
11.7 CONTROL ASSEMBLY (RWG-048)

NOTE: The voltage values in circuit diagram are expressed on page 70.




Servo control amplifier
Servo control amplifier ⊕
Switch assembly-No. 47
2SC1419
2SA564
2SC828Ⓗ
2SA673
2SC735
Switch assembly-No. 48
S16
Power supply circuit assembly-No. 6
REC solenoid
Transistor assembly-No. 3
D002 SIB01-01
Transistor assembly-No. 9
Fuse assembly-No. 8
Fuse assembly-No. 7
Servo control amplifier
Power supply circuit assembly-No. 13
Brake solenoid
Switch assembly-No. 35
REC/PB amplifier assembly-No. 57
S18 NC REC SW NO
34
Brake Solenoid
Transistor assembly-No. 2
SIB01-01
S17
Transistor assembly-No. 6
S14 NC NO
Servo control amplifier
Switch assembly-No. 46
S15
REC/PB amplifier assembly-Nos. 87, 88
Transistor assembly-No. 8
Transistor assembly-No. 7
Transistor assembly-No. 1

11.8 TRANSISTOR ASSEMBLY (RWX-083)



Parts List of Transistor Assembly (RWX-083)

CAPACITORS

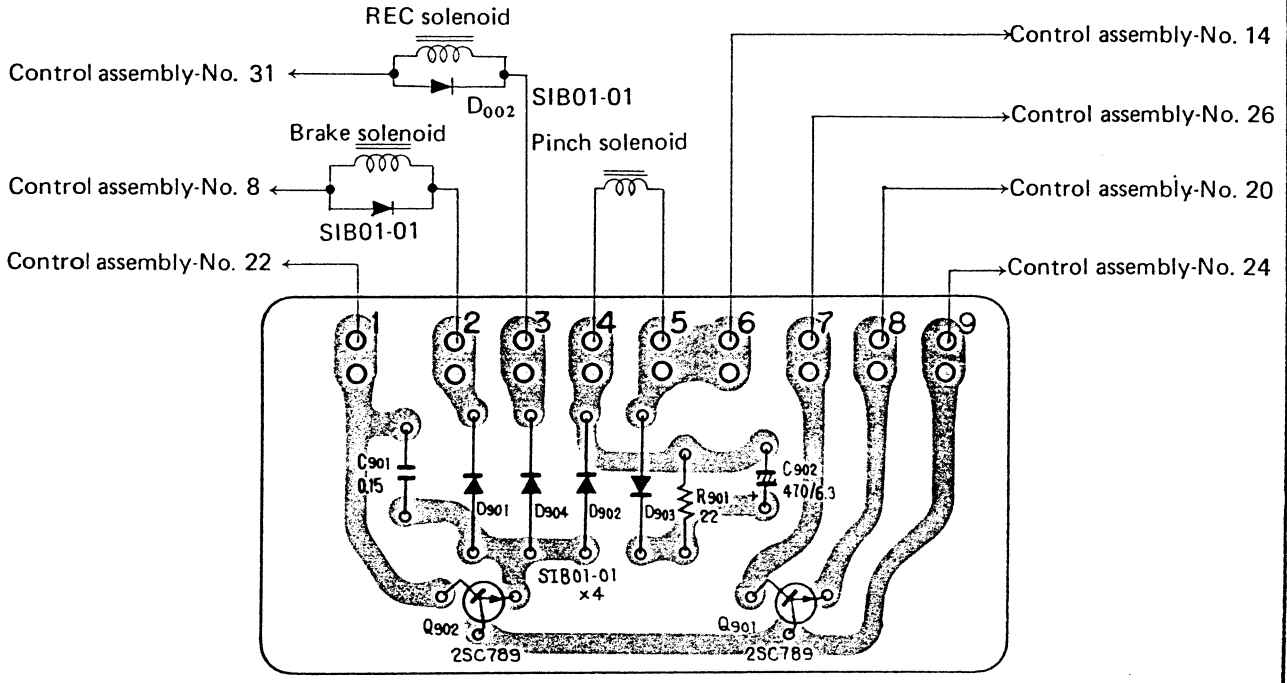
Symbol	Description			Part No.
C901	Mylar	0.15	50V	CQMA 154K 50
C902	Electrolytic	470	6.3V	CEA 471P 6R3

RESISTORS

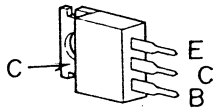
Symbol	Description		Part No.
R901	Carbon film	22	RD¼VS 220J

SEMICONDUCTORS

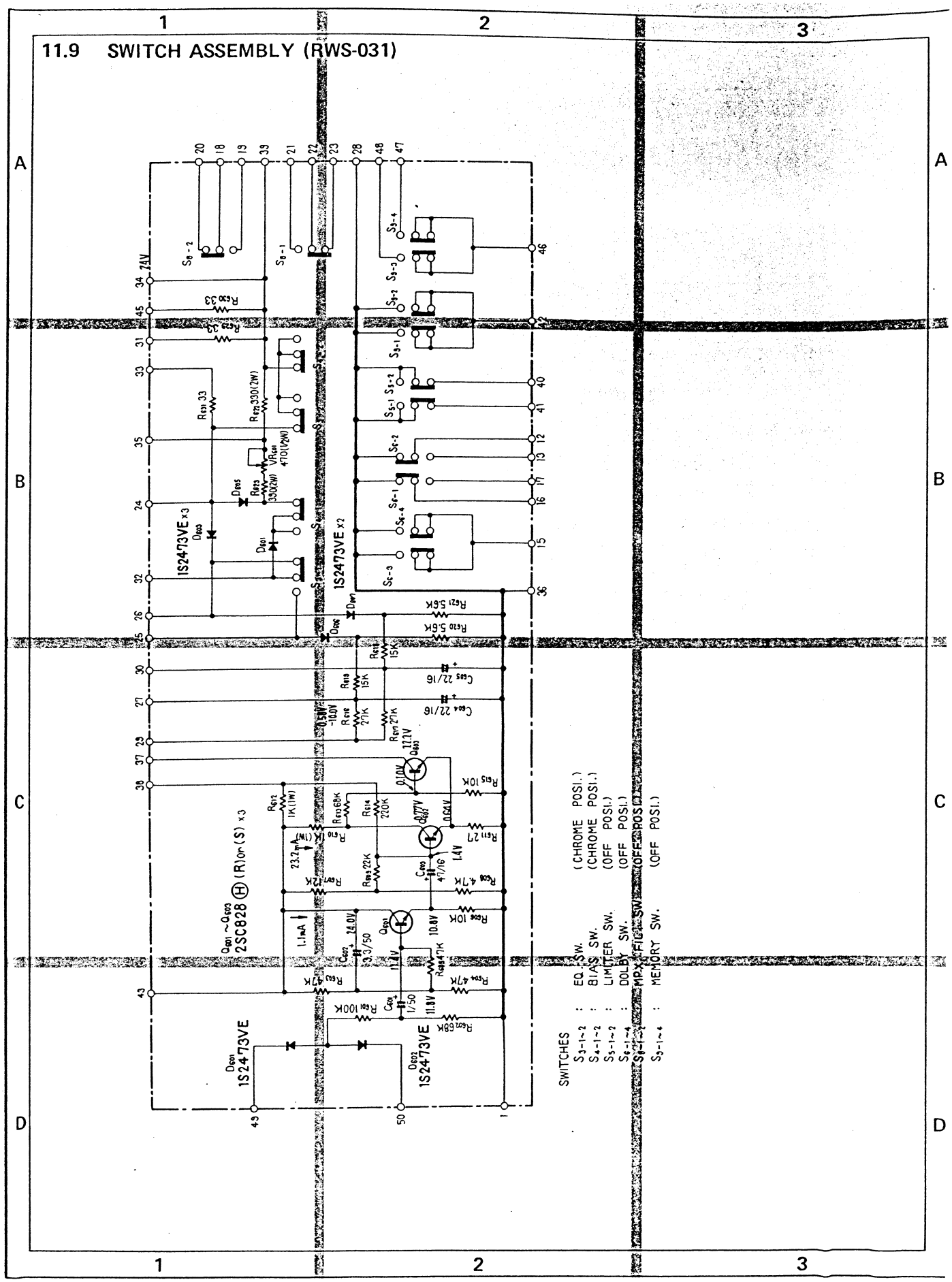
Symbol	Description		Part No.
D901	Diode	SIB01-01	
R902	Diode	SIB01-01	
R903	Diode	SIB01-01	
R904	Diode	SIB01-01	
Q901	Transistor	2SC789-0	
Q902	Transistor	2SC789-0	

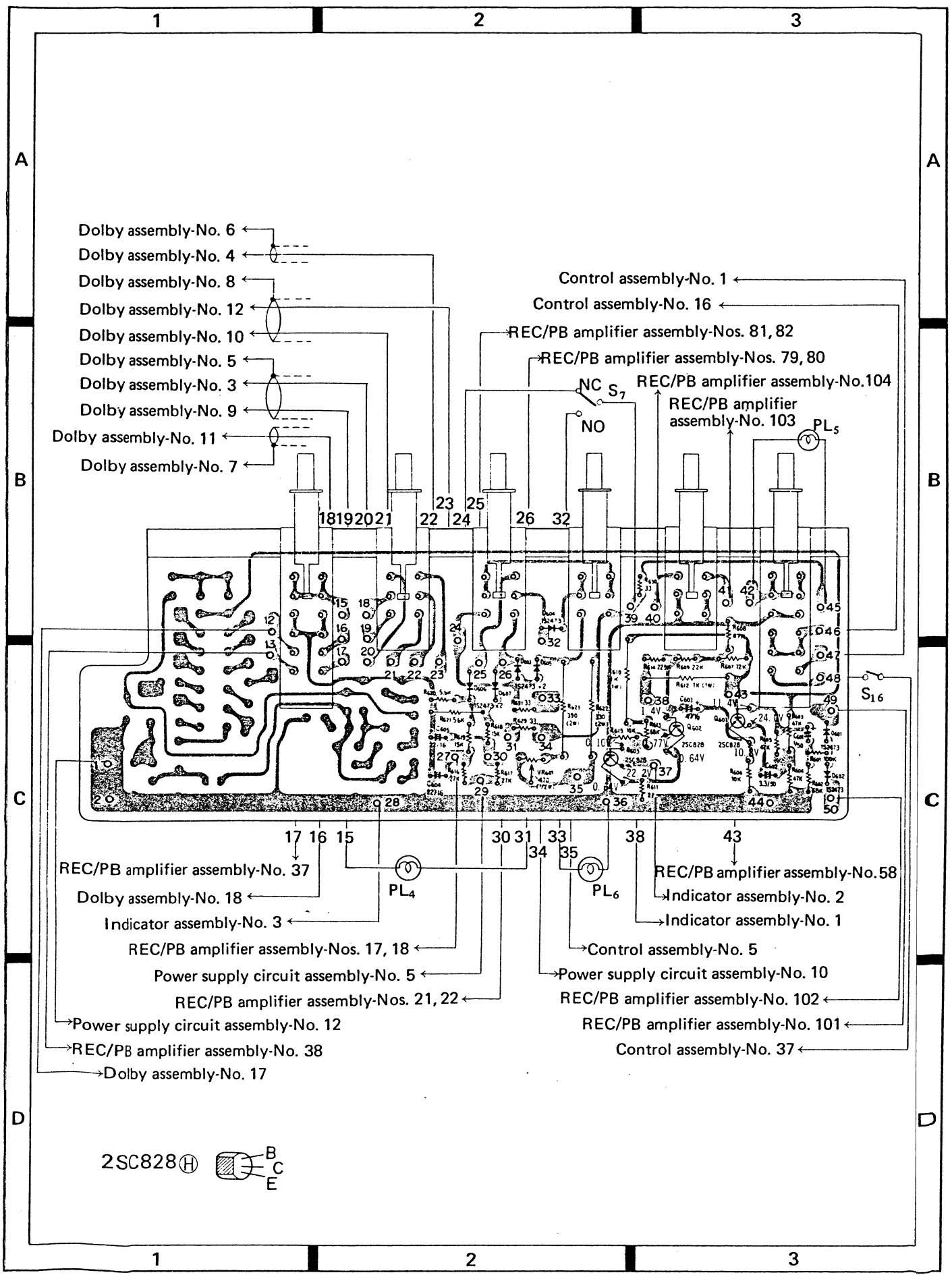

REC solenoid
Control assembly-No. 31
D002
SIB01-01
Brake solenoid
Pinch solenoid
Control assembly-No. 8
SIB01-01
Control assembly-No. 22
Control assembly-No. 14
Control assembly-No. 26
Control assembly-No. 20
Control assembly-No. 24
1
2
3
4
5
6
7
8
9
C901
0.15
D901
D904
D902
D903
R901
22
C902
470/6.3
SIB01-01
×4
Q902
2SC789
Q901
2SC789

2SC789

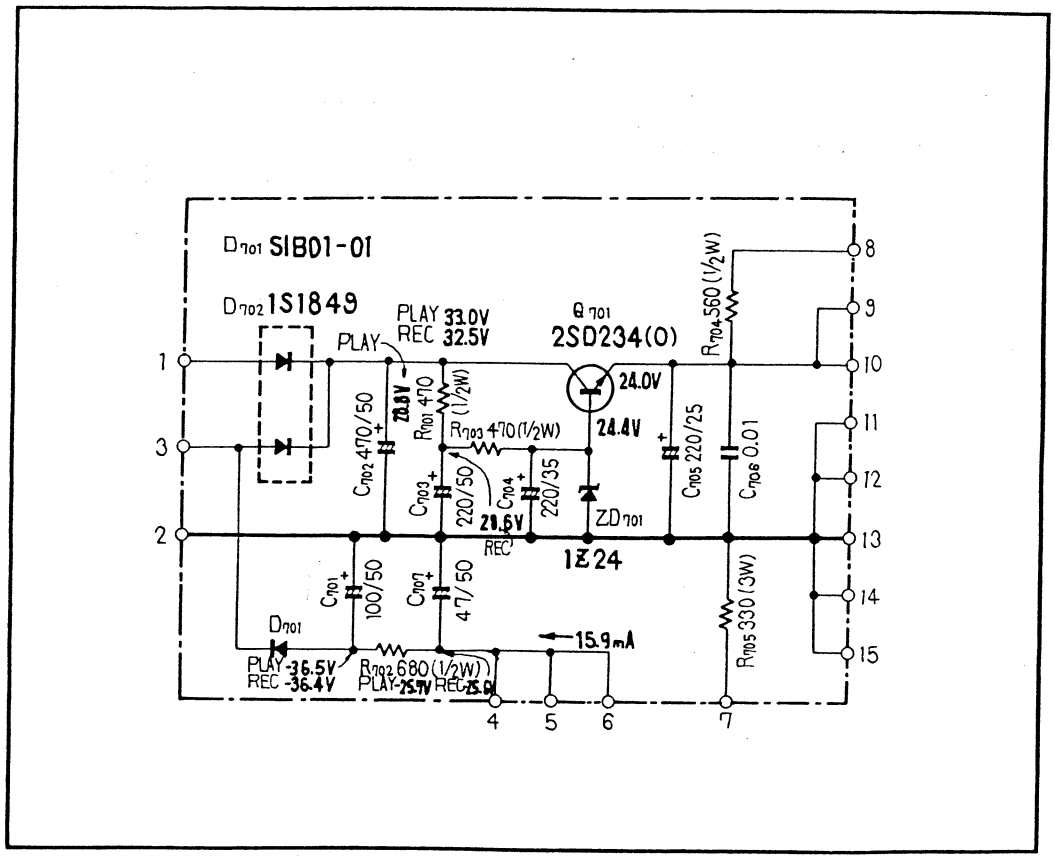

C
E
C
B

11.9 SWITCH ASSEMBLY (RWS-031)




1
2
3
A
B
C
D
Dolby assembly-No. 6
Dolby assembly-No. 4
Dolby assembly-No. 8
Dolby assembly-No. 12
Dolby assembly-No. 10
Dolby assembly-No. 5
Dolby assembly-No. 3
Dolby assembly-No. 9
Dolby assembly-No. 11
Dolby assembly-No. 7
Control assembly-No. 1
Control assembly-No. 16
REC/PB amplifier assembly-Nos. 81, 82
REC/PB amplifier assembly-Nos. 79, 80
NC
S7
NO
REC/PB amplifier assembly-No.104
REC/PB amplifier assembly-No. 103
PL5
S16
18 19 20 21 22 23 24 25 26 32
REC/PB amplifier assembly-No. 37
Dolby assembly-No. 18
Indicator assembly-No. 3
REC/PB amplifier assembly-Nos. 17, 18
Power supply circuit assembly-No. 5
REC/PB amplifier assembly-Nos. 21, 22
Power supply circuit assembly-No. 12
REC/PB amplifier assembly-No. 38
Dolby assembly-No. 17
PL4
PL6
REC/PB amplifier assembly-No.58
Indicator assembly-No. 2
Indicator assembly-No. 1
Control assembly-No. 5
Power supply circuit assembly-No. 10
REC/PB amplifier assembly-No. 102
REC/PB amplifier assembly-No. 101
Control assembly-No. 37
2SC828Ⓗ
B
C
E

11.10 POWER SUPPLY ASSEMBLY (RWR-026)



Parts List of Power Supply Assembly (RWR-026)

CAPACITORS

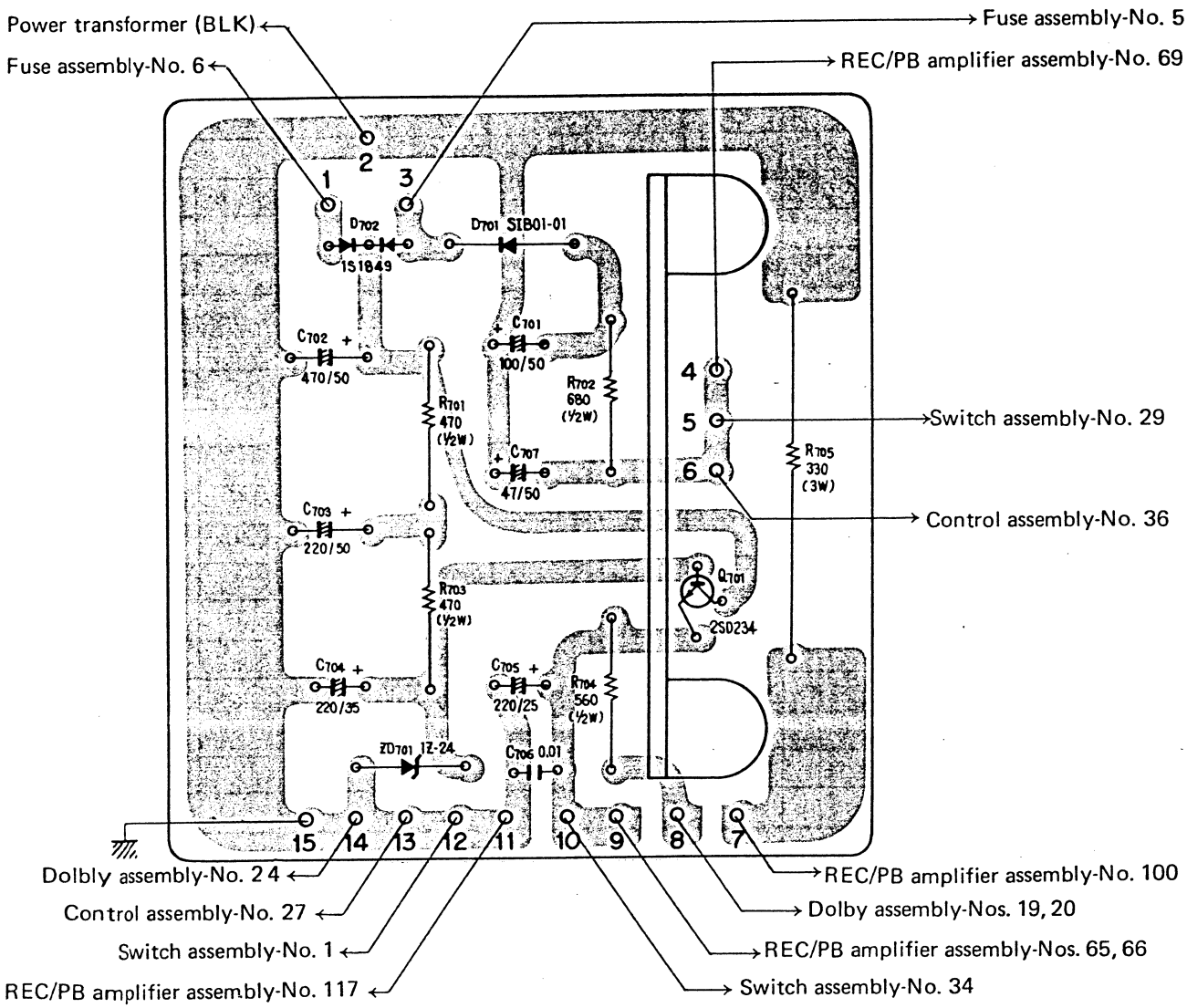
Symbol	Description			Part No.
C701	Electrolytic	100	50V	CEA 101P 50
C702	Electrolytic	470	50V	CEA 471P 50
C703	Electrolytic	220	50V	CEA 221P 50
C704	Electrolytic	220	35V	CEA 221P 35
C705	Electrolytic	220	25V	CEA 221P 25
C706	Ceramic	0.01	50V	CKDYF 103Z 50
C707	Electrolytic	47	50V	CEA 470P 50

RESISTORS

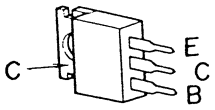
Symbol	Description			Part No.
R705	Metal oxide	330	3W	RS3P 331K
R701	Metal oxide	470	½W	RS½PSF 471J
R702	Metal oxide	680	½W	RS½PSF 681J
R703	Metal oxide	470	½W	RS½PSF 471J
R704	Metal oxide	560	½W	RS½PSF 561J

SEMICONDUCTORS

Symbol	Description	Part No.
Q701	Transistor 2SD234-0	
D701	Diode SIB01-01	
D702	Diode 1S1849	
ZD701	Zener diode 1Z24	

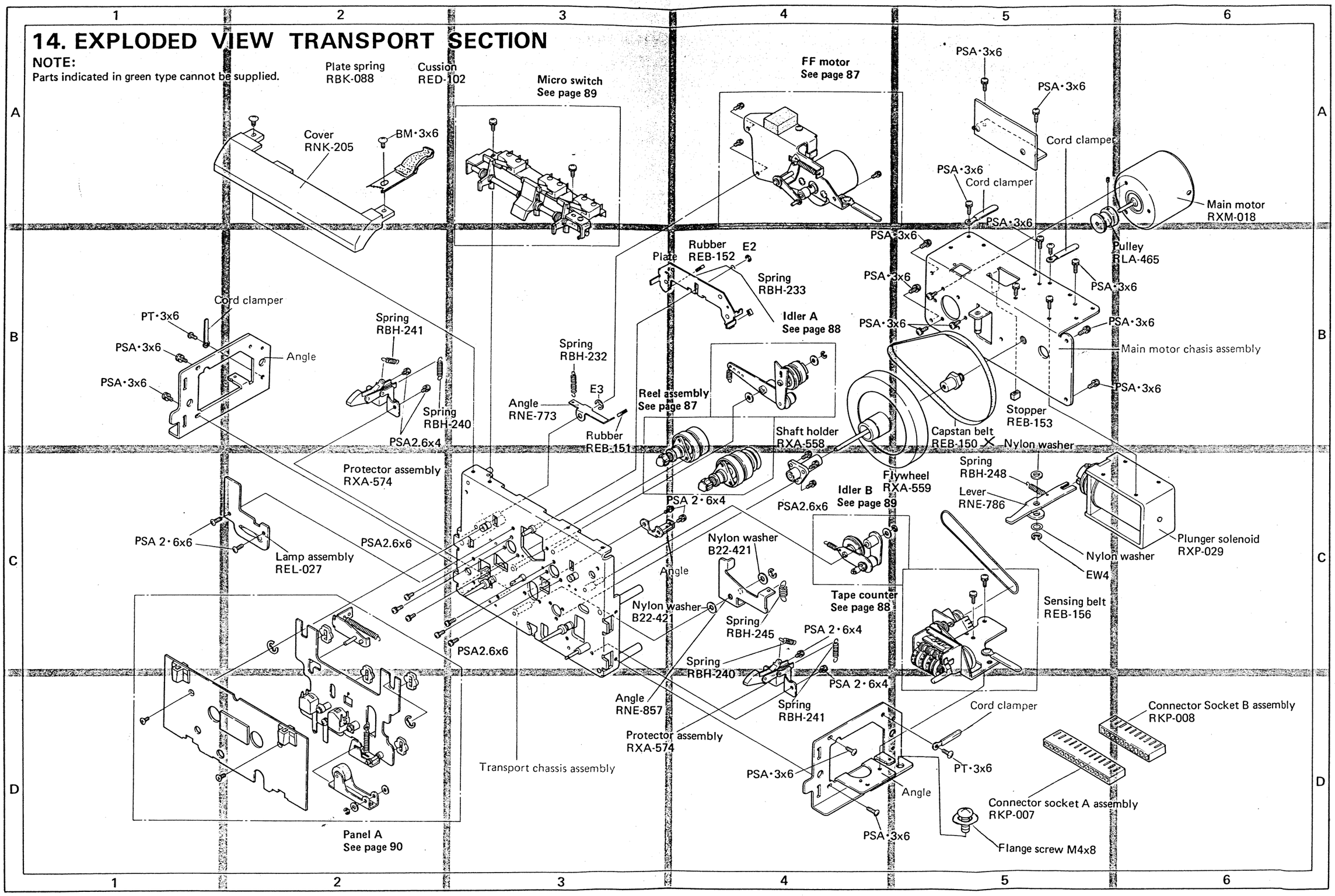

Power transformer (BLK)
Fuse assembly-No. 6
Fuse assembly-No. 5
REC/PB amplifier assembly-No. 69
Switch assembly-No. 29
Control assembly-No. 36
Dolbly assembly-No. 24
Control assembly-No. 27
Switch assembly-No. 1
REC/PB amplifier assembly-No. 117
REC/PB amplifier assembly-No. 100
Dolby assembly-Nos. 19, 20
REC/PB amplifier assembly-Nos. 65, 66
Switch assembly-No. 34
D702 1S1849
D701 SIB01-01
C702 470/50
C701 100/50
R702 680 (½W)
R701 470 (½W)
C707 47/50
R705 330 (3W)
C703 220/50
R703 470 (½W)
Q701 2SD234
C704 220/35
C705 220/25
R704 560 (½W)
ZD701 1Z-24
C706 0.01

2SD234

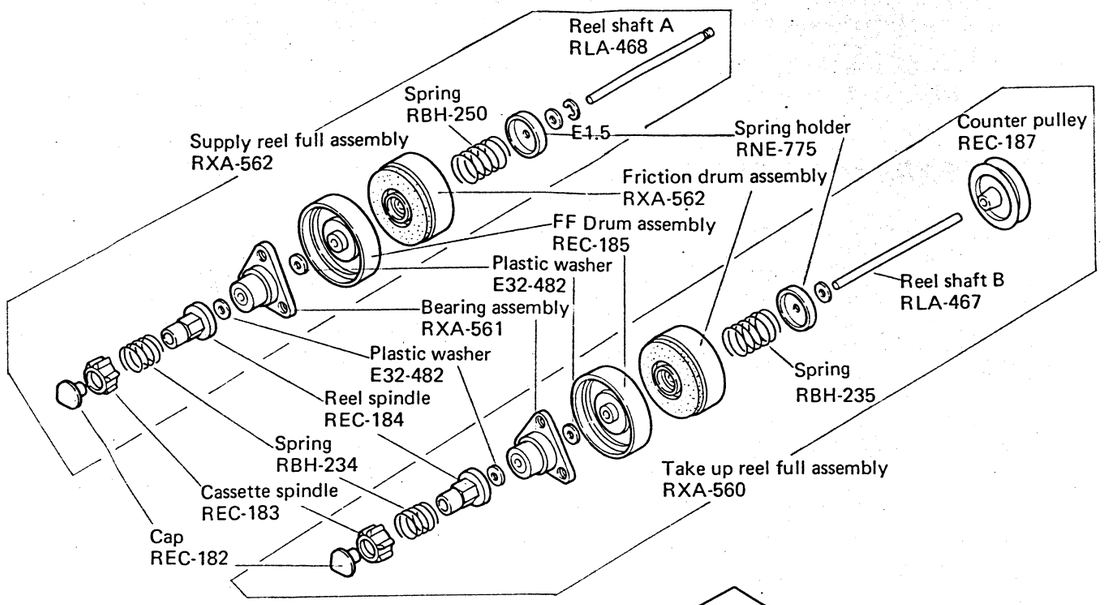

C
E
C
B

14. EXPLODED VIEW TRANSPORT SECTION

NOTE:
Parts indicated in green type cannot be supplied.



14.1 REEL ASSEMBLY



14.2 FF MOTOR

NOTE:
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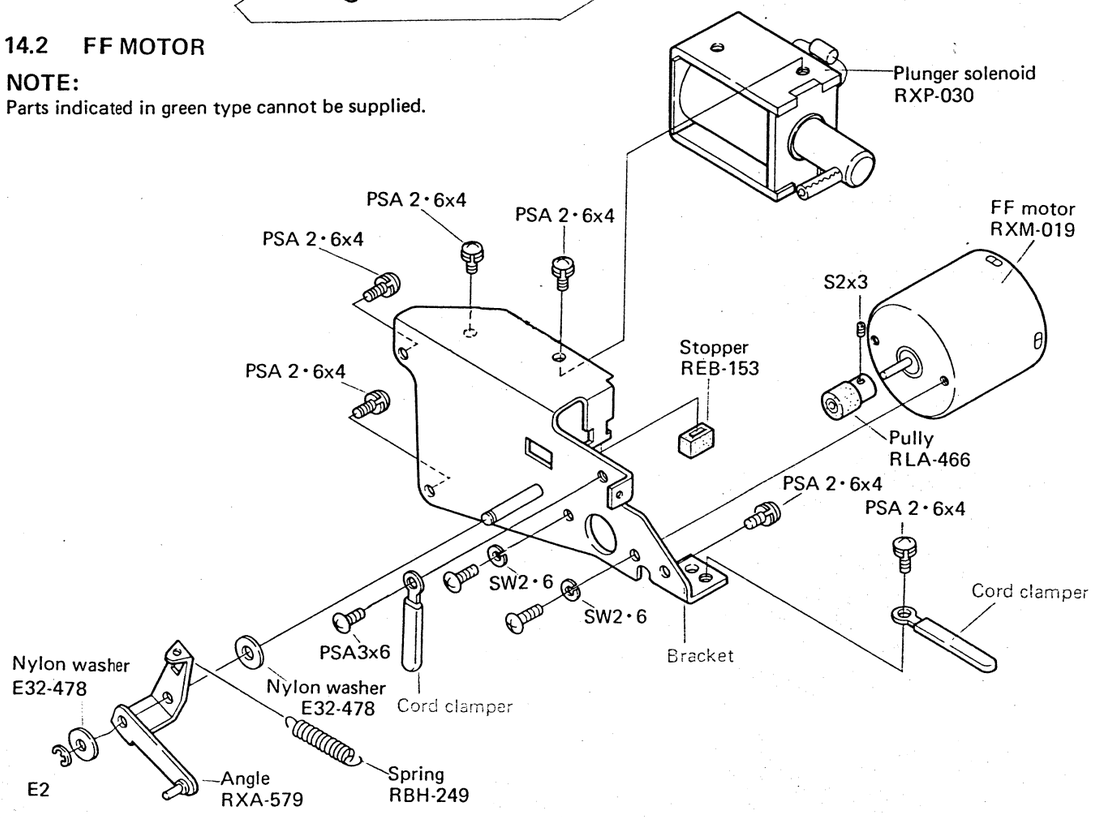
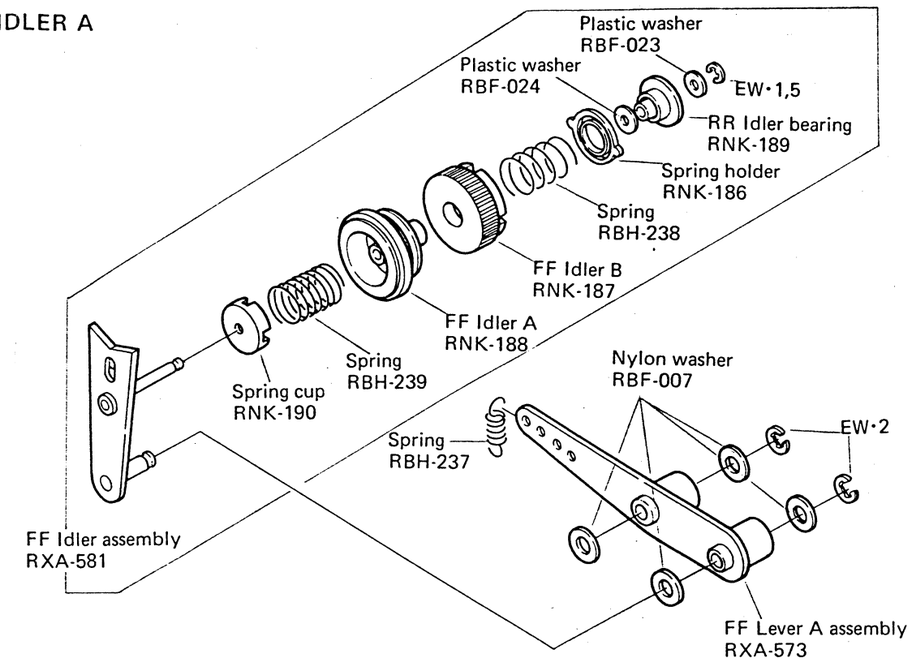


14.3 IDLER A



14.4 TAPE COUNTER

NOTE:
Parts indicated in green type cannot be supplied.